CFEIS Engine Systems Information Entry Form (SAMPLE)

♻EPA

Entry Field 1:
Input Record
Type

| E | 1 |

Entry Field 2:
Process Code

| |

Entry Field 3:
Engine Family/Test Group Name

| 1 | T | M | X | V | 0 | 3 | . | 2 | A | B | C |

Entry Field 4:
Engine System
Number

| 0 | 1 |

Entry Field 5:
Special Compliance
Indicator Code

| N |

.

Entry Field 6:
Alternate
Displacement 1

| | | | ● | | | |

Entry Field 7:
Alternate
Displacement 2

| | | | ● | | | |

Entry Field 8:
Alternative
Displacement 3

| | | | ● | | | |

Entry Field 9:
Combustion Cycle

| G |

Entry Field 10:
Ignition Type

| S |

Entry Field 11:
Basic Fuel
Metering System

| 1 | 2 |

Entry Field 12:
Valves per Cylinder

| 0 | 4 |

Entry Field 13:
Turbocharger
Supercharger

| N |

Entry Field 14:
Catalyst Construction

| 1 | 0 |

Entry Field 15:
Trap

| 0 | 0 |

Entry Field 16:
California OBD

| 2 |

Entry Field 17:
Federal OBD

| Y |

Entry Field 18:
Projected Job 1 Date

| 0 | 6 | 3 | 1 | 2 | 0 | 0 | 0 |

Entry Field 19:
Trip Point

| | | | | | | |

Entry Field 20:
Production Model Year Code

| |

Entry Field 21:
Preconversion
Model Year Code

| |

Entry Field 22:
CAP2000

| 2 |

Entry Field 23:
SFTP Compliance

| Y |

Entry Field 24:
SFTP Composite CO option for Tier 1
or TLEV or other applicable tier levels

| Y |

E1 - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	E1
Entry Field 2	Process Code	**See CMUG - Appendix D**
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/TEST GROUP NAME
Entry Field 4	Engine System Number	01-99
Entry Field 5	Special Compliance Indicator Code	Y - Yes N - No
Entry Field 6	Alternate Displacement 1	0000.000-8193.500 or *blank*
Entry Field 7	Alternate Displacement 2	0000.000-8193.500 or *blank*
Entry Field 8	Alternate Displacement 3	0000.000-8193.500 or *blank*
Entry Field 9	Combustion Cycle	G - Otto Cycle Piston D - Diesel Cycle R - Otto Cycle Rotary **See CMUG - Appendix D for more codes**
Entry Field 10	Ignition Type	S - Spark C - Compression N - Not Applicable **See Note in CMUG - Appendix D**
Entry Field 11	Basic Fuel Metering System	**See CMUG -Appendix D**
Entry Field 12	Valves per Cylinder	**See CMUG - Appendix D**
Entry Field 13	Turbocharger Supercharger	**See CMUG - Appendix D**
Entry Field 14	Catalyst Construction	**See CMUG - Appendix D**

Entry Field 15	Trap	1 - Trap - Active Regeneration 2 - Trap - Continuous Regeneration 3 - Trap - Continuous Regen + Fuel Additive 99 - Other (Contact EPA prior to use) **See Note in CMUG - Appendix D**
Entry Field 16	California OBD	N - No OBD 1 - CARB OBD I 2 - CARD OBD II D - OBD with Deficiencies **See Note in CMUG - Appendix D**
Entry Field 17	Federal OBD	Y - OBD N - No OBD D - Yes with Deficiencies **See Note in CMUG - Appendix D**
Entry Field 18	Projected Job 1 Date	Valid calendar date. *Note:* Business rule error if the value after update is blank or null. (mmddyyyy)
Entry Field 19	Trip Point	000000-999999 or *blank*
Entry Field 20	Production Code	0 - 5 *Note:* Indicates the number of years earlier than the certification model year.
Entry Field 21	Preconversion Code	0 - 5 *Note:* Indicates the number of years earlier than the certification model year.
Entry Field 22	CAP2000	0 - Prior to CAP2000 1 - CAP2000 (Early opt-in) 2 - Full CAP2000 (with Durability Group data)
Entry Field 23	SFTP Compliance	Y or N (default)
Entry Field 24	SFTP Composite CO option for Tier 1 or TLEV or other applicable tier levels	Y or N (default)

Entry Field 1:
Input Record
Type

E	R

Entry Field 2:
Durability Group Name

1	T	M	X	G	P	G	N	N	A	B	C

Entry Field 3:
Catalyst Precious Metal
Combination

	3

Entry Field 4:
Fuel Combination

S

ER - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ER
Entry Field 2	Durability Group Name	ER record is required if CAP2000 field (col 91 on E1) is 2 and is to be placed between E1 and ZZ records.
Entry Field 3	Catalyst Precious Metal Combination	Required if the DG (Durability Group) Name is not in the data base. 1 - Platinum based oxidation catalyst 2 - Palladium based oxidation catalyst 3 - Platinum and palladium oxidation catalyst 4 - Platinum and rhodium three-way catalyst 5 - Palladium and rhodium three-way catalyst 6 - Platinum and palladium and rhodium three-way catalyst
Entry Field 4	Fuel Combination	Required if the DG (Durability Group) Name is not in the data base. S - Single fuel D - Dual fuel F - Flexible fuel

Entry Field 1:
Input Record Type

E	D

Note: The ED Record has been removed. This Record is no longer required and should not be submitted.

Entry Field 1:
Input Record Type

E	E

Entry Field 2:
EERC/EVERC Process Code

Entry Field 3:
EERC/EVERC Code

0	1
6	0
1	8
6	2
1	5
4	1

Note: The EE Record does not apply to 2001 or later CAP2000 data and should not be entered.

ED and EE - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ED The ED Record has been removed. This Record is no longer required and should not be submitted.

Entry Field 1	Input Record Type	EE The EE Record does not apply to 2001 or later CAO2000 data and should not be entered.
Entry Field 2	EERC/EVERC Process Code	For *Add*: 'A' or *blank* - ' ' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	EERC/EVERC Code	**See CMUG - Appendix D**

CFEIS Engine Systems Information Entry Form (SAMPLE)

EPA

Entry Field 1:
Input Record
Type

Entry Field 2:
Comments

Type		Comments
E	C	T H I S I S A S A M P L E E S I
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	
E	C	

EC - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	FC
Entry Field 2	Comments	Text *Note*: Comment text is appended to the end of any existing comment text for Engine Family System.

⊕EPA

Entry Field 1:
Input Record
Type

`E` `2`

Entry Field 2:
Process Code

Entry Field 3:
Engine Family/Test Group Name

`1` `T` `M` `X` `V` `0` `3` `.` `2` `A` `B` `C`

Entry Field 4:
Engine System Number

`0` `1`

Entry Field 5:
Engine Family
Subsystem Number

`2`

Entry Field 6:
Model Year

Entry Field 7:
Sales Area Code

`C` `A`

~~**Entry Field 8:**~~
~~Projected Sales~~
(OBSOLETE)

~~**Entry Field 9:**~~
~~Actual Production~~
(OBSOLETE)

Entry Field 10:
DF Type

`1`

Entry Field 11:
GVW Category

`C` `L` `D` `V`

Entry Field 12:
Vehicle Class

Entry Field 1:
Input Record
Type

`E` `S`

Entry Field 2:
Process Code

Entry Field 3:
Emission Standards
Fuel Type Code

`G`

Entry Field 4:
Exhaust Emission
Standard Code

`C` `T`

E2 and ES Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	E2
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D' For *Report*: 'P' For *Cancel*: 'F' For *Reactivate*: 'G'
Entry Field 3	Engine Family/ Test Group Name	Valid ENGINE FAMILY/ TEST GROUP NAME
Entry Field 4	Engine System Number	01-99
Entry Field 5	Engine Family Subsystem Number	1-9
Entry Field 6	Model Year	1970-2100 *Note:* Defaults to derived Engine Family Model Year
Entry Field 7	Sales Area Code	**See CMUG - Appendix D**
~~Entry Field 8~~	~~Projected Sales~~	(Obsolete)
~~Entry Field 9~~	~~Actual Production~~	(Obsolete)
Entry Field 10	DF Type	**See CMUG - Appendix D**
Entry Field 11	GVW Category	**See CMUG - Appendix D**
Entry Field 12	Vehicle Class	Standard Engine Family Vehicle Class

Entry Field 1	Input Record Type	ES
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D'

Entry Field 3	Emission Standards
	Fuel Type Code
		G - Gasoline
		D - Diesel
		M - Methanol
		E - Ethanol
		C - Compressed Natural Gas
		           (1994-1997)
		L - Liquid Petroleum Gas (1994-
		           1997)
		CNG - Compressed Natural Gas (1998
		           & later)
		LNG - Liquefied Natural Gas
		LPG - Liquid Petroleum Gas (1998 &
		           later)
		N - Not Applicable

Entry Field 4	Exhaust Emission Standard Code	Text (01-32 and AA through ZZ) Standard Engine Family Standard

CFEIS Engine Systems Information Entry Form (SAMPLE)

⬇EPA

Entry Field 1:
Input Record Type

E	G

Entry Field 2:
Process Code

Entry Field 3:
Useful Life

0	5	0
1	0	0
0	5	0
1	0	0

Entry Field 4:
Cert / In Use Code

C
C
C
C

Entry Field 5:
Tier

T	L	E	V
T	L	E	V
T	L	E	V
T	L	E	V

Entry Field 6:
Emission Name

N	M	O	G													
N	M	O	G													
C	O															
C	O															

Entry Field 7:
Emission Standard

	0	●	1	2	5	
	0	●	1	5	6	
	3	●	4			
	4	●	2			

Entry Field 8:
Phase In Percentage

1	0	0
1	0	0
1	0	0
1	0	0

Entry Field 9:
Multiplicative DF

1	●	1	5	9
1	●	2	9	8
1	●	1	1	7
1	●	3	2	0

Entry Field 10:
Additive DF

		●					
		●					
		●					
		●					

Entry Field 11:
Averaging Flag

Entry Field 12:
Banking and Trading Indicator

Entry Field 13:
Non-Compliance Penalty Flag

Entry Field 14:
Waiver Flag

EG - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	EG
Entry Field 2	Process Code	For *Add*: 'A' or *blank* - ' ' For *Modify*: 'M' For *Replace*: 'R' For *Delete*: 'D'
Entry Field 3	Useful Life	000-999, N/A
Entry Field 4	Cert / In Use Code	C - Certification I - In Use *Note:* Value C is assigned as a default if input is blank.
Entry Field 5	Tier	T0 - Tier 0 T1 - Tier 1 T2 - Tier 2 ILEV - Inherently Low Emission Vehicle TLEV - California only - Transitional Low Emission Vehicle LEV - Low Emission Vehicle ULEV - Ultra Low Emission Vehicle SLEV - Super Ultra Low Emission Vehicle ZEV - Zero Emission Vehicle N/A - Not Applicable T1I - Tier 1 Intermediate
Entry Field 6	Emission Name	**See CMUG - Appendix D**
Entry Field 7	Emission Standard	000.0000 - 999.9999 *Note:* The system shall support the entry of emission standards by the user and may additionally provide default values if EPA has applicable standards. Business rule error if the value after update is blank or null.
Entry Field 8	Phase In Percentage	000-100, *blank* Assign value 0 as a default if the value after update is blank or null.

Entry Field 9	Multiplicative DF	0.000 - 9.999 *Note:* This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 1 when the value entered is less than 1.
Entry Field 10	Additive DF	-9.999999 - 9.999999 *Note:* This field shall be stored in the database as entered by the user, however IOV CFEIS processes that use this field shall use the value 0 when the value entered is less than 0.
Entry Field 11	Averaging Flag	Y, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.
Entry Field 12	Banking and Trading Indicator	B, T, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.
Entry Field 13	Non-Compliance Penalty Flag	Y, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.
Entry Field 14	Waiver Flag	Y, N, *blank* *Note:* Assign value N as a default if the value after update is blank or null.

Entry Field 1:
Input Record Type

Entry Field 2:
Comments

Entry Field 1		Entry Field 2: Comments
E	T	THIS IS A SAMPLE ESI
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	
E	T	THIS IS A SAMPLE ESI

ET - Engine Systems Information Entry Field Descriptions

Entry Field 1	Input Record Type	ET
Entry Field 2	Comments	Text **Note**: Comment text is appended to the end of any existing comment text for Engine Family Subsystem.